

ABSTRACT OF THE DISCLOSURE

Disclosed is an optical module of an isolator structure including a semiconductor laser, a polarizer, and a Faraday rotator. The laser outputs a first linearly-polarized beam of a predetermined polarization mode. The polarizer is positioned to face an end of the laser, and its polarization axis is tilted at a 45° angle with respect to the polarization direction of the first beam. The Faraday rotator is disposed between the laser and the polarizer, and rotate the polarization direction of the first beam by 45° to substantially coincide with the polarization axis of the polarizer, and then output it to the polarizer, and to rotate a second beam from the polarizer by 45° , wherein the second beam has a polarization mode polarized perpendicular to the first beam, and then output it to the semiconductor laser.